

Patent claims

1. Surface-modified zinc oxides, characterized in that they have the following physico-chemical characteristic data:

5 BET surface areas: $18 \pm 5 \text{ m}^2/\text{g}$
 C content: 0.5 to 1.0 wt.%

2. Process for the preparation of the surface-modified zinc oxides according to claim 1, characterized in that the zinc oxides, optionally after spraying with water, are
10 sprayed with the surface-modifying agent at room temperature and the mixture is then heat-treated at a temperature of 50 to 400°C over a period of 1 to 6 h.

3. Process for the preparation of the surface-modified zinc oxides according to claim 1, characterized in that the
15 zinc oxides, optionally after spraying with water, are treated with the surface-modifying agent in vapour form and the mixture is then heat-treated at a temperature of 50 to 800°C over a period of 0.5 to 6 h.

4. Use of the surface-modified zinc oxides according to
20 claim 1 for the preparation of cosmetics, in particular sunscreen compositions.